| Index of Claims                         | Application No.        | Applicant(s)             |
|---|------------------------|--------------------------|
|   | 10/706,169<br>Examiner | SINGHAL ET AL.  Art Unit |
| √ Rejected — (Through nume<br>Cancelled |                        | A Appeal                 |
| = Allowed + Restricted                  | I Interference         | O Objected               |

| Cli   | aim      | Date           |          |          |          |          |              |              | CI           | laim Date |          |          |          |                 |          |          |           | CI      | aim_              | Date     |           |       |       |            |          |          |           |          |                |          |          |           |           |
|-------|----------|----------------|----------|----------|----------|----------|--------------|--------------|--------------|-----------|----------|----------|----------|-----------------|----------|----------|-----------|---------|-------------------|----------|-----------|-------|-------|------------|----------|----------|-----------|----------|----------------|----------|----------|-----------|-----------|
| Final |          | 2/1/101        |          |          |          |          |              |              |              |           |          | Final    | Original |                 |          |          |           |         |                   |          |           |       | Final | Original   |          |          |           |          |                |          |          |           |           |
| 1     | 3        | Ξ              |          |          |          |          | 1            | I            | 丰            |           |          |          | 51       |                 |          |          | 1         |         |                   |          |           |       |       | 101        |          |          |           |          |                |          |          | $\exists$ | $\Box$    |
| 2     | 2        | 14             | <u> </u> | L        | ╀        | -        | _            | 1            | _            | -         | _        |          | 52       |                 | _        | 4        | 4         | _       | $\perp$           | 4        | 4         |       |       | 102        |          | _        |           |          | _              |          |          | _         | ႕         |
| 345   | 3        | Н-             |          | L        | ╀        | +        | +            | +            | +            | - -       | -        |          | 53       | Щ               | _        | +        | +         | +       | $\vdash$          | 4        | 4         |       |       | 103        |          |          |           | _        |                |          |          | 4         | ႕         |
| 4     | 4        | ₩              | -        | <u> </u> | ⊢        | -        | +-           | +            | +            |           | -        |          | 54<br>55 | Н               |          | +        | +         | +       | $\vdash$          | -        | -         |       |       | 104        |          |          |           |          |                |          |          | -         | ᅴ         |
| 6     | 5<br>6   | H              | $\vdash$ | -        | ╁        | +-       | ╁            | ╁            | ╁            | +         | - !!     | -        | 56       |                 | $\dashv$ | +        | +         | +       | +                 | +        | -         | 1     |       | 105<br>106 |          |          |           | _        | H              |          |          | $\dashv$  | $\dashv$  |
| 7     | 7        | Н              |          | -        | +-       | +        | +-           | ╁            | +            | ┰         | -        | -        | 57       | H               | +        | +        | +         | +       | +                 | $\dashv$ | $\dashv$  |       |       | 107        |          |          |           | <u> </u> | H              |          |          | $\dashv$  | _         |
| ż     | 8        | H              | $\vdash$ | ┢        | +-       | +        | +            | $^{+}$       | $\dagger$    | +         | -        |          | 58       | Н               | +        | ╅        | +         | +       | $\Box$            | $\dashv$ | $\dashv$  |       |       | 108        |          | $\neg$   |           |          | H              |          |          | $\dashv$  | $\dashv$  |
| 9     | 9        | $\top$         |          | <u> </u> | 1        | 1        | +            | †            | $\top$       | +         | ١        |          | 59       | П               | $\dashv$ | $\top$   | $\top$    | $\top$  | $\Box$            | _        | $\dashv$  |       |       | 109        |          |          |           |          |                |          |          | 1         |           |
| 10    | (10)     | $\top$         | _        | T        | Ť        | T        | T            | †            | T            | $\top$    | 7::      |          | 60       | П               |          | $\top$   | 十         | 1       | 1                 | $\neg$   | $\neg$    |       |       | 110        |          |          |           |          |                |          |          | 7         | _         |
| IL    | 11       |                |          |          | L        |          |              | Ι            | T            |           |          |          | 61       |                 |          | $\Box$   | $\top$    |         | $\Box$            | $\Box$   |           |       |       | 111        |          |          |           |          |                |          |          | $\neg$    |           |
| 12    | 12       | $\prod$        |          |          |          |          | $\perp$      | L            | I            |           |          |          | 62       |                 |          |          | T         |         |                   |          |           |       |       | 112        |          |          |           |          |                |          |          |           |           |
| 13    | 13       | 1              | _        | L        | <u> </u> | 1        | $\perp$      | 1            | $\perp$      | $\perp$   | _[       | <u></u>  | 63       | Ш               | $\sqcup$ | _        | $\perp$   |         | $\sqcup$          |          | _         |       |       | 113        |          | Ш        |           | _        | Ш              | $\Box$   | $\Box$   | _         |           |
| 14    | 14       | <del>  -</del> | _        | <u> </u> | $\vdash$ | 4        | +            | +            | +            | 4         | -        | -        | 64       | -               | 4        | _ _      | 4         | $\perp$ | $\sqcup$          | _        | _         |       |       | 114        |          | _        |           | <u> </u> |                |          | _        | _         |           |
| 15    | 15       | #              |          | ⊢        | $\vdash$ | +        | +            | +            | +            | +         | -        | -        | 65       |                 | $\dashv$ | $\dashv$ | +         | +       | $\vdash$          | _        | 4         |       |       | 115        |          | _        |           | _        | Н              | $\vdash$ | $\dashv$ | $\dashv$  | _         |
| 17    | 16<br>17 | 1              | $\vdash$ | ⊢        | $\vdash$ | +        | +            | ╀            | +            | +         | - :::    | -        | 66<br>67 | $\vdash$        | $\dashv$ | +        | +         | +       | $\vdash$          | +        | -         |       |       | 116<br>117 |          | $\dashv$ |           | $\vdash$ | $\vdash$       | Н        | $\vdash$ | $\dashv$  | $\dashv$  |
| 11    | 18       | =              |          | ┢        | $\vdash$ | -        | +            | +            | +            | +         | $\dashv$ |          | 68       | Н               | $\dashv$ | +        | +         | +       | +                 | +        | $\dashv$  | 1     |       | 117        |          |          |           | _        |                | $\vdash$ |          | $\dashv$  | _         |
| -14   | 19       | =              | -        | ╁        | ╁        | +        | +            | +            | +            | +         | -        |          | 69       | $\vdash$        | $\dashv$ | +        | +         | +       | +                 | +        | -         |       |       | 119        |          | $\dashv$ | _         | _        | $\vdash$       | H        | -        | $\dashv$  | _         |
|       | 20       | -              |          | ╁╴       | ╁        | ╁        | +            | +            | +            | +         | $\dashv$ | -        | 70       | -               | -        |          | +         | +       | +                 | +        | -         |       |       | 120        | _        | -        |           |          | Н              | H        |          | $\dashv$  | _         |
|       | 21       |                | 1        | ┢        | T        | 1        | +            | +            | +            | $\top$    | -        |          | 71       | H               |          | _        | +         | +-      | $\vdash$          | +        | 1         |       |       | 121        |          |          | _         |          |                |          |          | _         |           |
|       | 22       | _              |          |          |          | T        | $\top$       | 1            | $\top$       | $\top$    |          |          | 72       | П               |          |          | 7         | $\top$  | $\Box$            | $\dashv$ |           |       |       | 122        | _        |          |           | _        |                |          |          | 7         |           |
|       | 23       |                |          |          |          |          |              | ĺ            |              |           |          |          | 73       |                 |          |          |           |         |                   | $\Box$   |           |       |       | 123        |          |          |           |          |                |          |          |           |           |
|       | 24       |                |          |          |          |          |              |              |              |           |          |          | 74       |                 |          |          |           |         |                   | $\bot$   |           |       |       | 124        |          |          |           |          |                |          |          |           |           |
|       | 25       |                |          | L        |          |          | $\perp$      | $\perp$      | 1            | _         | _        | <u></u>  | 75       | Ш               |          |          | 4         | _       | $\sqcup$          |          | ╝         | iii.  |       | 125        |          |          |           |          | Ш              |          |          | _         |           |
|       | 26       | <u> </u>       | _        | L        | _        | $\perp$  | $\bot$       | $\bot$       | 4-           | 4         | _        | <u></u>  | 76       | Ш               | _        | _        | 4         | 4       | $\sqcup$          | _        | $\perp$   |       |       | 126        |          |          |           |          | Ш              |          |          | 4         |           |
|       | 27       |                |          | L        | ₩        | +        | +            | +            | +            | -         | 4        | <u> </u> | 77       | Н               | $\vdash$ | +        | +         |         | +-+               | -        | 4         |       |       | 127        |          |          |           |          |                |          | _        | -         | _         |
|       | 28<br>29 | -              |          | $\vdash$ | ╁        | +        | +            | +            | +            | +         | -        | -        | 78<br>79 |                 |          | +        | +         | +       | -                 | -+       |           |       |       | 128        |          | -        |           | _        | -              |          | $\dashv$ | $\dashv$  | _         |
|       | 30       |                | _        | -        | ╁        | ╁        | ╁            | ╀            | ╫            |           | -        | -        | 80       |                 | $\vdash$ | +        | +         | +-      | ╁                 | -+       | -         |       |       | 129<br>130 |          | $\dashv$ | _         |          | $\vdash$       |          | -        | $\dashv$  | _         |
|       | 31       | -              |          | ┢        | ┢        | +        | +            | +            | +            | +         | -        | -        | 81       | Н               | +        | +        | +         | +-      | ╂═┼               | $\dashv$ | $\dashv$  | H     |       | 131        |          |          | _         | -        | Н              | Н        | $\dashv$ | +         | -         |
|       | 32       | Т              | Н        | T        | T        | +        | $\dagger$    | $^{\dagger}$ | $^{+}$       | 十         | ١        | 1        | 82       | H               | $\dashv$ | +        | $\dashv$  | +       | $\dagger \dagger$ | $\dashv$ | $\dashv$  | H     |       | 132        | _        |          |           | H        | H              | H        | $\dashv$ | $\dashv$  | $\dashv$  |
|       | 33       |                |          |          | T        | 1        | $\top$       | T            | $^{\dagger}$ | $\top$    | 7        |          | 83       | П               |          | $\top$   | $\dagger$ | $\top$  | П                 | 十        | 7         | ľ     |       | 133        |          |          |           | $\vdash$ | $\vdash$       |          | $\dashv$ | $\dashv$  | $\neg$    |
|       | 34       |                |          |          | Γ        |          | $oxed{\Box}$ |              | L            | ┸         |          |          | 84       |                 |          |          | ╧         |         |                   | 丁        |           |       |       | 134        |          |          |           |          |                |          |          |           |           |
|       | 35       |                |          | 匚        |          |          |              | L            | Ι            | I         | _]       |          | 85       |                 |          |          |           |         | $\Box$            | $\Box$   |           |       |       | 135        |          |          |           |          |                |          |          |           |           |
|       | 36       | L              | _        | _        | L        | 1        | 1            | 1            | 1            | $\perp$   | 4        |          | 86       | Ш               |          |          | $\perp$   | $\perp$ | $\sqcup$          | $\perp$  | $\perp$   |       |       | 136        |          |          |           |          |                |          | $\Box$   | 耳         |           |
|       | 37       | <u> </u>       | _        | _        | 1_       | 1        | 4_           | 1            | 4            | _ _       | 4        | <u> </u> | 87       | Ш               | $\sqcup$ | $\bot$   | $\bot$    | 4       | $\sqcup$          | _        | 4         |       |       | 137        |          | $\Box$   |           |          | $\Box$         |          | $\Box$   | $\perp$   | _         |
|       | 38       | _              |          | -        | -        | +        | +-           | +            | +            | 4         | -        | <u> </u> | 88       | $\square$       | $\vdash$ | +        | +         | 4-      | $\vdash$          |          | 4         |       |       | 138        | _        | _        | _         |          | Ш              | $\Box$   | $\dashv$ | $\dashv$  | _         |
|       | 39<br>40 |                | -        | $\vdash$ | ╀        | ╁        | +            | +            | +            | +-        | -        | -        | 89<br>90 | $\vdash \vdash$ | $\dashv$ | +        | +         | +-      | ╁╌┤               | +        | 4         | -     |       | 139<br>140 | _        |          | _         |          | Н              | $\vdash$ | $\dashv$ | 4         | _         |
| -     | 41       | $\vdash$       | -        | -        | +-       | ╁╌       | +            | +            | +            | +         | -        | -        | 91       | $\vdash$        | $\dashv$ | +        | +         | +-      | $\vdash \vdash$   | +        | $\dashv$  | ŀ     |       | 141        | -        | -        | _         | $\vdash$ | $\vdash\vdash$ | Н        | $\dashv$ |           | 닉         |
|       | 42       |                | -        | -        | +-       | ╁        | +            | +            | ╁            | +         | -        | -        | 92       | $\vdash$        | +        | +        | +         | ┿       | $\vdash$          | +        | $\dashv$  | •     |       | 141        |          | $\dashv$ | _         | H        | Н              | $\vdash$ | $\dashv$ | $\dashv$  | $\dashv$  |
|       | 43       | _              | $\vdash$ | Т        | t        |          | †            | $\dagger$    | $^{\dagger}$ | +         | ۱        | -        | 93       |                 | $\dashv$ | $\dashv$ | +         | $\top$  | +                 | $\dashv$ | $\dashv$  |       |       | 143        | $\dashv$ | -        | -         | H        | H              | H        | $\dashv$ | +         | $\dashv$  |
|       | 44       |                |          |          | T        | T        | T            | T            | 十            | +         | ٦        |          | 94       |                 | 十        | 十        | +         | T       | H                 | 7        | $\dashv$  |       |       | 144        | $\neg$   | $\dashv$ | $\exists$ | Н        | H              |          | $\dashv$ | $\dashv$  | $\exists$ |
|       | 45       |                |          |          |          |          | T            | T            | T            | 1         |          |          | 95       |                 | 寸        | $\top$   | $\top$    | $\top$  | П                 | 1        | $\exists$ |       |       | 145        | $\dashv$ |          |           |          | $\vdash$       |          | 7        | 寸         | $\dashv$  |
|       | 46       |                |          |          |          |          | 1            | Ι            | I            | I         |          |          | 96       |                 |          |          |           | $\perp$ |                   | _        |           |       |       | 146        |          |          |           |          |                |          |          | $\neg$    | $\neg$    |
|       | 47       |                |          |          | Ĺ        |          |              | I            |              | $\perp$   |          |          | 97       |                 | $\Box$   |          | $\perp$   | I       |                   | $\perp$  |           |       |       | 147        |          |          |           |          |                |          |          | J         |           |
|       | 48       |                |          | _        | L        | <u> </u> |              | L            | Ļ            | $\perp$   | _        |          | 98       | Ш               |          | $\perp$  | Ĺ         |         | $\Box$            |          | $\Box$    |       |       | 148        |          | $\Box$   |           |          |                |          |          | I         |           |
|       | 49       |                | _        | _        | <u> </u> | ┺        | 1            | $\perp$      | 1            | +         | 4        |          | 99       | $\sqcup$        | 4        | 4        | -         | +-      | $\sqcup$          | _        | _         |       |       | 149        |          |          |           | Ш        | $\Box$         |          | _        | 4         | _         |
|       | 50       |                |          | L        |          | 1        |              | Ш.           | ┸            | 上         | ::::     | :        | 100      | $\sqcup$        |          |          | ┸         |         |                   |          | :         | ::::[ |       | 150        |          |          |           |          | Ш              |          |          |           |           |